A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : B01D 53/62			
US CL According to	: 423/247; 422/171 International Patent Classification (IPC) or to both no	etional cla	eccification and IDC
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S. : 4	23/247; 422/171	Dy Classiii	ication symbols)
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Decumentation accorded asker decided asker d			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *			
Х	X US 6,287,529 B1 (HEIL et al.) 11 Spetember 2001, column 2.		
			ŀ
Further	documents are listed in the continuation of Box C.		See patent family annex.
Special categories of cited documents:		"T"	later document published after the international filing date or priority
	defining the general state of the art which is not considered to be		date and not in conflict with the application but cited to understand the principle or theory underlying the invention
	lar relevance	"X"	
"E" earlier ap	plication or patent published on or after the international filing date	^	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step
"L" document	which may throw doubts on priority claim(s) or which is cited to		when the document is taken alone
establish (specified)	the publication date of another citation or other special reason (as	-Y-	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is
·		(combined with one or more other such documents, such combination
"O" document referring to an oral disclosure, use, exhibition or other means			being obvious to a person skilled in the art
"P" document published prior to the international filing date but later than the priority date claimed		-&-	document member of the same patent family
Date of the ac	ctual completion of the international search	Date of	mailing of the international search report
•		26	APR 2004
02 April 2004 (02.04.2004) Name and mailing address of the ISA/US			zed officer
Mail Stop PCT, Attn: ISA/US			~ 0
Commissioner for Patents		Stuart Hendrickson Jean Proctor	
P.O. Box 1450 Alexandria, Virginia 22313-1450			one No. 571-272-1700
Faccinila No. (702) 205 2220			

Form PCT/ISA/210 (second sheet) (July 1998)